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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process graphs are used to obtain a better understanding of the execution of the application. The visualization tool developed at the University of Waterloo. However, these diagrams are often very complex and do not provide a desired overview of the application. In our experience, such tools display repeated occurrences

2 [Designing data marts for data warehouses](#)



October 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 10 Number 5

Publisher: ACM Press

Full text available: [pdf\(203.43 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Data warehouses are databases devoted to analytical processing. They are used to support decision making in modern business settings, when complex data sets have to be studied and analyzed. The technique assumes that data are presented in the form of simple data marts, consisting of a well-identified set of analysis dimensions (star schema). Despite the wide diffusion of data warehouse technology and its applications, there is still a need for a better understanding of the design and implementation of data warehouses.

Keywords: conceptual modeling, data mart, data warehouse, design method, software quality

3 [Reprint: MSIS 2006: model curriculum and guidelines for graduate degree programs in information systems](#)



John T. Gorgone, Paul Gray, Edward A. Stohr, Joseph S. Valacich, Rolf T. Wigand

June 2006 **ACM SIGCSE Bulletin**, Volume 38 Issue 2

Publisher: ACM Press

Full text available: [pdf\(868.32 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This article presents the MSIS 2006 Model Curriculum and Guidelines for Graduate Degree Programs in Information Systems. With MSIS 2000 and its predecessors, the objective is to create a model for schools designing or updating their Information Systems curriculum. The curriculum was designed by a joint committee of the Association for Computing Machinery and the Association for Information Systems. MSIS2006 is a major update of MSIS 2000. Features Included: required courses, elective courses, and a list of recommended readings.

Keywords: MS career tracks, MS course outlines, MS curriculum

4 Computing curricula 2001



September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index term](#)

5 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona



Thomas Haigh

January 2006 **ACM Oral History interviews**

Publisher: ACM Press

Full text available: pdf(761.66 KB)

Additional Information: [full citation](#), [abstract](#)

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the South during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went

6 The role of time in information processing: a survey



A. Bolour, T. L. Anderson, L. J. Dekeyser, H. K. T. Wong

April 1982 **ACM SIGMOD Record**, Volume 12 Issue 3

Publisher: ACM Press

Full text available: pdf(2.16 MB)

Additional Information: [full citation](#), [references](#), [citations](#)

7 Information systems interoperability: What lies beneath?



Jinsoo Park, Sudha Ram

October 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: pdf(824.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Interoperability is the most critical issue facing businesses that need to access information from multiple sources. Our objective in this research is to develop a comprehensive framework and methodology to facilitate interoperability among distributed and heterogeneous information systems. A comprehensive framework for modeling interoperability is proposed. Our proposed framework provides a unified view of the underlying representation

Keywords: Information integration, mediators, ontology, semantic conflict resolution, semantic

8 A logical framework for reasoning about access control models



Elisa Bertino, Barbara Catania, Elena Ferrari, Paolo Perlasca

February 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 1

Publisher: ACM Press

Full text available: pdf(450.80 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The increased awareness of the importance of data protection has made access control a relevant issue in information management systems. Moreover, emerging applications and data models call for flexible and expressive access control mechanisms. This has led to an extensive research activity that has resulted in the definition of a variety of access control models, each with greatly different access control policies they support. Thus, the need arises for developing a logical framework for reasoning about access control models

Keywords: Access control framework, access control models analysis, logic programming

9 Data warehouse construction: Triple-driven data modeling methodology in data warehousing

 Yuhong Guo, Shiwei Tang, Yunhai Tong, Dongqing Yang
November 2006 **Proceedings of the 9th ACM international workshop on Data warehousing & OLAP**
Publisher: ACM Press


Full text available:  pdf(1.45 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In this paper, we present a useful data modeling methodology in data warehousing which integrates three models normally used in isolation: goal-driven, data-driven and user-driven. It comprises of four stages: goal-driven stage produces subjects and KPIs(Key Performance Indicators) of main business fields. Data-driven stage produces data schema. User-driven stage yields analytical requirements represented by measures and dimensions. Finally, we combine them to produce a unified data model.

Keywords: case study, data warehouse design, requirement analysis

10 The role of time in information processing: a survey

 A. Bolour, T. L. Anderson, L. J. Dekeyser, H. K. T. Wong
April 1982 **ACM SIGART Bulletin**, Issue 80

Publisher: ACM Press

Full text available:  pdf(2.12 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Numerous researchers in a handful of disciplines have been concerned, in recent years, with the role of time in information processing. Designers of computerized information systems have to take into account the fact that when an information item becomes outdated, it need not be forgotten. Researchers in artificial intelligence need for a realistic world model to include representations not only for snapshot descriptions of the current state of the world but also for the evolution of the world over time.

11 Evolution of Data-Base Management Systems

 James P. Fry, Edgar H. Sibley
March 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.63 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Evolution of data modeling for databases

 Shamkant B. Navathe
September 1992 **Communications of the ACM**, Volume 35 Issue 9

Publisher: ACM Press

Full text available:  pdf(2.74 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: data model database, database design, schema design

13 The intrinsic problems of structural heterogeneity and an approach to their solution

Theo Härder, Günter Sauter, Joachim Thomas
April 1999 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(132.99 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper focuses on the problems that arise when integrating data from heterogeneous sources into a single view. At first, we give a detailed analysis of the kinds of structural heterogeneity that occur when different database systems are integrated. We present the results in a multiple tier architecture which distinguishes between different types of heterogeneity and relates them to their underlying causes as well as to the mapping conflicts resulting from them.

Keywords: Heterogeneity, Legacy systems, Mapping language, Schema integration, Schema m

14 Is information systems a science? an inquiry into the nature of the information systems dis



Deepak Khazanchi, Bjørn Erik Munkvold
May 2000 **ACM SIGMIS Database**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.89 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

Keywords: characteristics of scientific fields, information systems discipline, philosophy of scie

15 Is information system a science? an inquiry into the nature of the information systems disc



Deepak Khazanchi, Bjørn Erik Munkvold
June 2000 **ACM SIGMIS Database**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.89 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The information systems (IS) discipline is apparently undergoing an identity crisis. Academician departments in colleges, stating the absence of a core for the field and its integration within oth for its elimination. At the same time, many practitioners, as reflected in the U.S. government's continue to ignore IS as a distinct field of study. This article briefly outlines these and other cha

Keywords: characteristics of scientific fields, information systems discipline, philosophy of scie

16 Paper session III: statistics, clustering: Approximate matching of textual domain attributes
integration



Andreas Koeller, Vinay Keelara
June 2005 **Proceedings of the 2nd international workshop on Information quality in in**

Publisher: ACM Press

Full text available: [pdf\(949.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A key problem in the integration of information sources is the identification of related attributes sources. Inferring such meta-information from source data (rather than a-priori available meta-sometimes possible. For example, existing algorithms attempt to integrate information sources Inclusion Dependencies (INDs) across them. However, INDs are based on exact set Inclusion ar

17 An MIS course integrating information technology and organizational issues



Michael H. Zack
April 1998 **ACM SIGMIS Database**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.60 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Integrating technologies and applications to provide better access to, and sharing of, corporate enterprise-wide tasks and processes is a critical means to adding business value through inform potential employers seek information systems professionals whose skills focus on the integratio information resources, and business strategy. However, these companies also perceive that uni gradua ...

Keywords: educational simulation, information systems curriculum, information systems educa integration, information systems training

18 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing C



Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)

July 2005

ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(6.19 MB)

Additional Information: [full citation](#), [index terms](#)

19 Collective entity resolution in relational data



Indrajit Bhattacharya, Lise Getoor

March 2007

ACM Transactions on Knowledge Discovery from Data (TKDD), Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(511.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index t](#)

Many databases contain uncertain and imprecise references to real-world entities. The absence entities often results in a database which contains multiple references to the same entity. This redundancy, but also inaccuracies in query processing and knowledge extraction. These problem use of *entity resolution*. Entity resolution involves discovering the underlying entities and mappi

Keywords: Entity resolution, data cleaning, graph clustering, record linkage

20 Data warehouse design from XML sources



Matteo Golfarelli, Stefano Rizzi, Boris Vrdoljak

November 2001 **Proceedings of the 4th ACM international workshop on Data warehousing a**

Publisher: ACM Press

Full text available: pdf(1.35 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)

A large amount of data needed in decision-making processes is stored in the XML data format, commerce and Internet-based information exchange. Thus, as more organizations view the web communication and business, the importance of integrating XML data in data warehousing envii increasingly high. In this paper we show how the design of a data mart can be carried out starti Two main issues aris ...

Keywords: XML, data warehouse design, data warehousing and the web

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<u>L1</u>	"data warehouse" and (entity or entities same relationship\$4)	2508	<u>L1</u>

END OF SEARCH HISTORY